

## **ABSTRACT**

5       Methods, systems, and media relating the display of scattering and/or absorption  
characteristics of an optical medium. For scattering measurements, a Hartmann-Shack  
calibration image of a measurement system is acquired to define a first plurality of point  
spread functions. A Hartmann-Shack test image of the medium is acquired to define a  
second plurality of point spread functions. A shift is determined between the test image  
and the calibration image. A point spread of each of the second plurality of point spread  
10       functions is measured, each of the second plurality of point spread functions including a  
component due to optical aberration of the medium and a component due to scatter. The  
component due to optical aberration is determined using the shift. The component due to  
optical aberration is deconvolved to determine the component due to scatter. A display  
of the local scattering characteristics is generated using the component due to scatter. For  
15       absorption measurements, a plurality of spot intensity measurements are acquired of a  
medium, each spot intensity measurement including a component due to reflectivity and a  
component due to absorption. The component due to reflectivity is determined, and the  
component due to absorption is determined.